FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: CITY OF LAS VEGAS
6005 E. VEGAS VALLEY DR.
LAS VEGAS, NV - 89142

Permit Number: NS0098005

Location: DURANGO HILLS WATER RESOURCE CENTER, CLARK
3271 N. DURANGO DRIVE, LAS VEGAS, NV - 89129
LATITUDE: 36.220542, LONGITUDE: -115.279556
TOWNSHIP: 20 S, RANGE: 60 E, SECTION: 8

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	INFLUENT	Internal Outfall		LAS VEGAS	NV	89129	CLARK	36.220229	-115.287660	GROUNDWATER
002	EFFLUENT	External Outfall		LAS VEGAS	NV	89129	CLARK	36.220509	-115.280518	GROUNDWATER

General:

The Permittee, City of Las Vegas, has applied for the renewal of permit #NS0098005 covering their wastewater treatment and reclamation plant, Durango Hills Water Resource Center (DHWRC), located at 3271 N Durango Drive, Las Vegas. DHWRC provides tertiary treated and disinfected to Category A reclaimed water quality standards per NAC 445A.276, for reuse at various golf courses, parks, and schools in the Las Vegas Valley.

The Durango Hills Water Reclamation Center is a wastewater reclamation facility that consists of flow equalization, perforated plate screens and grit removal, activated sludge, secondary sedimentation, filtration and chlorination using chlorine contact basins for disinfection to produce tertiary treated reuse effluent. The treated reuse effluent is discharged to a storage reservoir owned and operated by the Las Vegas Valley Water District (LVVWD) for distribution currently to golf courses, and potentially to parks and other reuse application sites for irrigation. The LVVWD provides additional chlorination prior to discharging to the distribution lines to further protect public health. Sludge from the plant is returned to the sanitary sewers and is treated at the main City of Las Vegas Water Pollution Control Facility plant (NV0020133). The facility was originally designed to discharge to the Wash when needed; a separate outfall is authorized under existing NPDES permit NV0020133, and is subjected to the requirement to meet appropriate monitoring and reporting effluent quality standards as and when in use. A separate pre-treatment program other than that covered by NV0020133 is not required.

Discharge Characteristics:

The facility treats sanitary sewage from domestic sources and has not exceeded the permit limitations on flow (limited to 30-day average maximum of 10 MGD).

Total Coliform: <1.1 c.f.u. consistent throughout the prior permit cycle.

BOD5 Annual Average: 0.90mg/l

TSS: 0.50mg/l

Nitrogen, total: 19.70mg/l

pH Minimum: 6.45 Standard Units

pH Maximum: 7.73 Standard Units

Receiving Water:

The receiving water is groundwater in the western region of the Las Vegas Valley. The depth to groundwater in this area is approximately 500 feet. Impacts to groundwater quality are not expected.

Summary of Changes From Previous Permit:

Monitoring frequency is changed from daily to weekly where applicable.

Quarterly limit set for Outfall 002 has been added.

An annual limit set for Outfall 002 has been added.

Monitoring of Nitrogen speciation has been removed.

Effluent limitation of minimum 85% removal of BOD5 and TSS has been added.

Due to current naming conventions of NDEP, the permit identification number has been updated to NS0098005.

WWTP Discharge Limitations Table for Sample Location 001 (Internal Outfall) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Flow rate	Daily Maximum	M&R Million Gallons per Day (Mgal/d)		Raw Sewage Influent	001	Continuous	METER
Flow rate	30 Day Average	<= 10 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	001	Continuous	METER
pH	Value		M&R Standard Units (SU)	Raw Sewage Influent	001	Weekly	DISCRT
Solids, total suspended	Daily Maximum		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	001	Weekly	COMPOS
Solids, total suspended	30 Day Average		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	001	Weekly	COMPOS
BOD, 5-day	Daily Maximum		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	001	Weekly	COMPOS
BOD, 5-day	30 Day Average		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	001	Weekly	COMPOS

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Flow rate	Daily Maximum	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	002	Continuous	METER
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	002	Continuous	METER
pH, maximum	Daily Maximum		<= 9 Standard Units (SU)	Effluent Gross	002	Weekly	DISCRT
pH, minimum	Daily Minimum		>= 6 Standard Units (SU)	Effluent Gross	002	Weekly	DISCRT
Solids, total suspended	Daily Maximum		<= 45 Milligrams per Liter (mg/L)	Effluent Gross	002	Weekly	COMPOS
Solids, total suspended	30 Day Average		<= 30 Milligrams per Liter (mg/L)	Effluent Gross	002	Weekly	COMPOS
BOD, 5-day	Daily Maximum		<= 45 Milligrams per Liter (mg/L)	Effluent Gross	002	Weekly	COMPOS
BOD, 5-day	30 Day Average		<= 30 Milligrams per Liter (mg/L)	Effluent Gross	002	Weekly	COMPOS
Chlorine, total residual	Daily Minimum		>= 0.2 Milligrams per Liter (mg/L)	Effluent Gross	002	Weekly	DISCRT
Coliform, total general	Daily Maximum		<= 23 Colony Forming Units per 100ml T (CFU/100mL)[1]	Effluent Gross	002	Weekly	DISCRT
Coliform, total general	30 Day Geometric Mean		<= 2.2 Colony Forming Units per 100ml T (CFU/100mL)[1]	Effluent Gross	002	Weekly	DISCRT
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Weekly	COMPOS

Notes (WWTP Discharge Limitations Table):

1. As used in this section, "c.f.u. /100ml" can be substituted by mpn/100ml.

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Solids, suspended percent removal	Monthly Average Minimum		>= 85 Percent (%)	Effluent Net	002	Monthly	CALCTD[1]
BOD, 5-day, percent removal	Monthly Average Minimum		>= 85 Percent (%)	Effluent Net	002	Monthly	CALCTD[1]

Notes (WWTP Discharge Limitations Table):

1. This value shall be calculated from the influent and the effluent data for each month (001-A & 002-A).

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
1,2,4-Trichlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
1,2-Dichlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
1,2-Diphenylhydrazine	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
1,3-Dichlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
1,4-Dichlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
2,4-Dinitrotoluene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
2,6-Dinitrotoluene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
2-Chloronaphthalene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
3,3-Dichlorobenzidine	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
4-Bromophenyl phenyl ether	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
4-Chlorophenyl phenyl ether	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
			M&R				

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Acenaphthene	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Acenaphthylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Anthracene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Benzidine	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Benzo(a)anthracene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Benzo(a)pyrene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Benzo(b)fluoranthene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Benzo(ghi)perylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Benzo(k)fluoranthene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Bis(2-chloroethoxy)methane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Bis(2-chloroethyl) ether	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Bis(2-chloroisopropyl) ether	Daily Maximum		M&R Micrograms per Liter	Effluent Gross	002	Annual	COMPOS

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
			(ug/L)				
Bis(2-ethylhexyl) phthalate	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Butyl benzyl phthalate	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Chrysene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Dibenzo(a,h)anthracene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Diethyl phthalate	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Dimethyl phthalate	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Di-n-butyl phthalate	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Di-n-octyl phthalate	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Fluoranthene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Fluorene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Hexachlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Hexachlorobutadiene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Hexachlorocyclopentadiene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Hexachloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Indeno(1,2,3-cd)pyrene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Isophorone	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Naphthalene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Nitrobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
N-Nitrosodimethylamine (NDMA)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
N-Nitrosodi-N-propylamine	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
N-Nitrosodiphenylamine	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Phenanthrene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
			M&R				

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Pyrene	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
1,1,1-Trichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
1,1,2,2-Tetrachloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
1,1,2-Trichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
1,1-Dichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
1,1-Dichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
1,2-Dichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
1,2-Dichloropropane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
trans-1,2-Dichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
1,3-Dichloropropene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
2-Chloroethyl vinyl ether, (mixed)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Acrolein	Daily Maximum		M&R Micrograms per Liter	Effluent Gross	002	Annual	DISCRT

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
			(ug/L)				
Acrylonitrile	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Benzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Bromoform	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Carbon tetrachloride	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Chlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Chloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Chloroform	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Dibromochloromethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Dichlorobromomethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Ethylbenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Methyl bromide (Bromomethane)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Methyl chloride (Chloromethane)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Methylene chloride	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Tetrachloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Toluene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Trichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Vinyl chloride	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
4,4-DDD	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
4,4-DDE	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
4,4-DDT	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Aldrin	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
.alpha.-BHC	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
			M&R				

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
.alpha.-Endosulfan	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
.beta.-BHC	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
.beta.-Endosulfan	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Chlordane (tech mix. and metabolites)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
.delta.-BHC	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Dieldrin	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Endosulfan sulfate	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Endrin	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Endrin aldehyde	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
.gamma.-BHC	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Heptachlor	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Heptachlor epoxide	Daily Maximum		M&R Micrograms per Liter	Effluent Gross	002	Annual	COMPOS

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
			(ug/L)				
PCB-1016	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
PCB-1221	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
PCB-1232	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
PCB-1242	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
PCB-1248	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
PCB-1254	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
PCB-1260	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Toxaphene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
2,4,6-Trichlorophenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
2,4-Dichlorophenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
2,4-Dimethylphenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
2,4-Dinitrophenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
2-Chlorophenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
2-Methyl-4,6-dinitrophenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
2-Nitrophenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
4-Chloro-3-methylphenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
4-Nitrophenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Pentachlorophenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Phenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Antimony, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Arsenic, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Beryllium, total recoverable (as Be)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
			M&R				

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Cadmium, total recoverable	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Chromium, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Copper, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Lead, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Mercury, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Nickel, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Selenium, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Silver total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Thallium, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Zinc, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
2,3,7,8-Tetrachlorodibenzo-p-dioxin	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS
Asbestos	Daily Maximum		M&R Fibers per Milliliter (Fib/mL)	Effluent Gross	002	Annual	COMPOS

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Cyanide, total (as CN)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	COMPOS

Proposed Technology Based Effluent Limitations:

BOD_5: Daily Maximum <=45mg/l; 30-day average <=30mg/l; Percent Removal >= 85%

TSS: Daily Maximum <=45mg/l; 30-day average<=30mg/l; Percent Removal >= 85%

pH: Range 6.0-9.0

Rationale for Permit Requirements:

Flow, BOD5, pH, and TSS: Monitoring is required to demonstrate that secondary treatment is being provided and to determine when design capacity is being approached.

Total Coliform: Limits are set to ensure the effluent continues to meet Category A Reclaimed Water for Reuse Standards per NAC 445A.276

Once per permit term priority pollutant monitoring is needed to ensure the effluent continues to meet the expectations of discharges from the domestic wastewater treatment facility.

The Permittee may discharge to a storm drain and ultimately to the Las Vegas Wash. The discharge to the Wash is authorized under existing NPDES permit NV0020133 as a separate outfall, and includes requirements for monitoring and reporting effluent quality, hence water quality based effluent limitations are not needed in this permit.

Total Nitrogen is monitored to determine loading rates for reuse sites. Since the permittee currently doesn't discharge to storm drain and reported to be in the process of removing the outfall from their NPDES permit , the monitoring and reporting of Nitrogen speciation is not necessary and has been removed.

The Permittee's compliance history (99.9% of reported data well under permit limits) supports the approval for the Permittee's request to revise and lower the monitoring frequency. However, given the treatment capacity of the facility, in case an exceedance is detected, special condition to temporarily switching the monitoring to daily until compliance is achieved is warranted.

Monitoring of percent removal of 5-day BOD and TSS is consistent with EPA Secondary Treatment Standards and will help to affirm facility's overall performance.

DHWRC serves as a satellite treatment to a parent site (#NV0020133), and each and every industrial user likely to discharge to DHWRC is covered under the parent site's pre-treatment program. As such, the permittee is exempted from implementing any pre-treatment program under this specific permit (#NS0098005). This exemption has been confirmed via discussions with EPA Permit's Office (WTR-2-3).

Special Conditions:

SA – Special Approvals / Conditions Table

Item #	Description
1	The Permittee shall notify the Division of any new facility and/or reuse site that is to receive effluent 90 days prior to delivering effluent. Each site shall have a discharge permit and an approved Effluent Management Plan prior to receiving effluent.
2	The Permittee shall notify the NDEP Compliance Coordinator within 7 days after delivering effluent for the first time to a new site or facility at the following address: Division of Environmental Protection, Bureau of Water Pollution Control, Attn: Compliance Coordinator, 901 S. Stewart Street, Suite 4001,Carson City, NV 89701-5249
3	In the case Total Coliform limit found to be in exceedance to the Category A Reclaimed Water Reuse standards per NAC 445A.276, besides following proper protocols for mitigation, the Permittee shall temporarily increase the Coliform sampling frequency to daily until three consecutive daily maximum results are within compliance limits.
4	The Annual DMR submission from the Permittee shall include a list of approved reuse sites and the annual discharges to each of these sites.

Flow:

30-Day Average Flow limited to <=10 MGD.

Corrective Action Sites:

There are no Bureau of Corrective Actions sites within one mile of this facility.

Wellhead Protection Program:

The facility is within the 3,000 foot but outside the 1,000 foot Drinking Water Protection Area (DWPA) around three Las Vegas Valley Water District (LVVWD) public water supply wells (Wells 90, 114 and 115). There is no currently established Wellhead Protection Area (WHPA) for this location. Under normal operational conditions negative impact to the groundwater is not expected.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	By November 06, 2017, the Permittee shall submit any revisions to the Operations and Maintenance manual prepared in accordance with "Minimum Information Required, Operation and Maintenance Manual WTS-2, 11/90" and "WTS-2 Addendum" available from NDEP-BWPC website: http://ndep.nv.gov/bwpc/fact01.htm	11/6/2017

Deliverable Schedule:

DLV– Deliverable Schedule for Reports, Plans, and Other Submittals

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	10/28/2017
2	Annual Report	Annually	1/28/2018

Procedures for Public Comment:

The Notice of the Division's intent to issue a permit authorizing the facility to discharge to groundwater of the State of Nevada subject to the conditions contained within the permit, is being sent to the **Las Vegas Review Journal** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing until 5:00 P.M. **8/4/2017** , a period of 30 days following the date of the public notice. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator of EPA Region IX or any interested agency, person or group of persons. The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted. Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determined to be appropriate. All public hearings must be conducted to accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Proposed Determination:

The Division has made the tentative determination to issue / re-issue the proposed 5-year permit.

Prepared by: **Sharada Maligireddy**
Date: **6/30/2017**
Title: **Staff Engineer**